correctly observed, the regulation of the temperature becomes a very simple matter, since it takes place almost spontaneously. One can give the furnace the maximum of gas and air (naturally in the correct ratios to one another) which the furnace is capable of holding, without being compelled to fear overheating of the same, since the great heat demand of fche endothermic carbon reaction does not admit of an excess of heat taking place. The temperature fixes itself in conformity with the carbon content of the bath for the time being, and merely the carbon elimination takes place the more rapidly the more heat is supplied to the bath. Danger to the furnace can only make its appearance if the carbon in

TABLE V.—CHARGE 8,996.

JS To. of Te st.	Ti me tos t till OM I.	ll £j '• '-	Metal.				Slag.						Remarks.
			C	Si	P	M n	Fe	Mn	Si0 2	Ca O	M g O	P	
			Per - cen t	Pe r- ce nt.	Pe r C" Jlt .	Pe r Ci '.,. t.	Per ce nt.	Per - ce nt.	Per - ce nt.	Per ce nt.	Pe r ce nt .	Pe i- ce nt .	
M	9- 25 9- 40	1 5	}*2 n	-1- 03	0- 1(5	V 9 U	—	—	_	—	—	—	j Pig iron from I both ladles.
2	10- 0	3 5	4- 04	0- 19	O- O G	0- 50	34- 25	14- 80	20- 68	11- 32	1- 22	0- 62	
3	10- 15	5 0	3- 84	0- 04	0- 02	0- 28	31- 60	14- 87	20- J2	13- 32	2- 23	0- 77	
4	10- 45	8 0	2- 7*	0- 04	o- oi	0- 30	33- 41	13- 11 2	18- 30	14- 71	1- 73	0- 82	
5	11- 15	1 1 0	2- 38	tra ce	() •( )!	0- 26	31- 35	12- 76	18- 54	18- 07	3- 53	0- 77	
6	11- 45	1 4 0	1- 77	»	o- oi	0- 28	27- 96	11- 91	18- 06	21- 49	4- 61	0- 77	(At 12-0. 230
7	12- 15	1 7 0	1- 50	j)	0- 02	0- 26	26 *7 5	11- 30	17- 40	25- 30	3- 89	0- 76	j kilogramm es (ore added. f 180
8	12- 45	2 0 0	0- 70	»	0- 02	0- 36	14- 76 t	12- 19	21- 58	34- 26	4- 75	0- 79	| kilogramm es (ore added.

9	1-15	230	0-12	j>	0-02	0-46	11-50	11-62	21-10	37'57	5-83	0-77	(20 < kilogrammes (sand added. (200 kilogrammes
10	1;45	260	0-09	?>	0-02	0-71	9-93	12:12	20-92	39-54	6-4-1	0-68	J ferro-man-1 ganese added j Tapped about U-55.